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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/654,961	09/05/2003	Hirohito Suda	242215US90	7969
. 22850	7590 11/28/200		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			CASCA, FRED A	
	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
•••			. 2687	

DATE MAILED: 11/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	TA 1: 1: N				
	Application No.	Applicant(s)			
Office Action Summer	10/654,961	SUDA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Fred A. Casca	2687			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a repty be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 16 S	September 2005.				
2a)⊠ This action is FINAL . 2b)☐ This	s action is non-final.				
· · · · · · · · · · · · · · · · · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) <u>9-15</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>9-15</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 16 September 2005 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	are: a) \square accepted or b) \square object drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)			

DETAILED ACTION

1. This action is in response to applicant's amendment filed on March 17, 2005. Claims 9-13 are still pending in the present application. This Action is made FINAL.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless -
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 9-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Pombo et al., U.S. Patent No. 5,799,256.

Referring to claim 9, Pombo discloses a mobile terminal (Abstract, FIG. 1, and col. 2, lines 52-67, "a portable communication device (104)") comprising a transmitter/receiver configured to transmit/receive a signal to/from a base station (FIG. 1, and col. 3, line 39-67, "a tunable receiver 108", "transmitter 110", "base station 102", "base station 102 sends an appropriate signal on a control channel for . . . the mobile station 104"), a reception state measurement unit configured to measure a reception state of the signal from the base station received by the transmitter/receiver (col. 6, lines 7-17, "Predicting when the user needs to communicate", note that radio communication inherently involves transmitting and receiving, hence the unit predicts when the user needs to receive and transmit, and consequently determines a reception state signal from the base station received by the transmitter/receiver (e.g., predicting a communication state indicating that the user is in communication or in active reception and transmission mode), a movement state measurement unit configured to measure a movement

state of the mobile terminal (col. 5, line 43 through col. 6, line 7, "Predicting user movement", note that a movement predicting unit (a movement state measurement unit) exists which predicts the mobility of the user, and consequently measures a movement state of the mobile terminal), and a reception period controller (FIG. 1, and col. 4, line 30 through col. 5, line 11, "controller 116", "battery control 122", note that the controller 116 and the battery control 122 combined together is the reception period controller) configured to control a reception period for receiving a control signal transmitted from the base station by the transmitter/receiver, based on a reception state measurement result determined by the communication state determination unit and a movement state measurement result measured by the movement state measurement unit (FIGS. 2-6, and col. 5, line 16 through col. 7, line 60, "There are three main processes which may be combined", "having a different periodicity", "a predetermined time period, such as 1.5 seconds", "the mobile station again powers up to search for a control channel", "low power mode", "continuous sleep mode", note that predicting when the user needs to communicate allows the mobile station to enter a very low power mode or continuous sleep mode, and in the continuous sleep mode, in distinction to the sleep mode, the mobile station does not wake up periodically to detect a control channel, but it remains largely powered down for an extended period of time, and after the extended period of time elapses, the mobile station again powers up to search for a control channel, hence the communication state determination result (very low power mode or continuous sleep mode) determined by the communication state determination unit (predicting when the user needs to communicate unit) prompts the reception period controller to control a reception period for receiving a control signal from the base station. Further note that predicting user movement allows the mobile station to eliminate unnecessary registration to other base stations when the mobile station is already locked to its current base station, and consequently decreasing the reception period for receiving control signals from other base stations, hence, mobility of the mobile terminal (movement state measurement result) which resulted from predicting user movement (movement state measurement unit) prompted the reception period controller to control a reception period for receiving a control signal transmitted from the base station by the transmitter/receive).

Referring to claim 10, Pombo discloses the mobile terminal of Claim 9, further comprising a communication state determination unit configured to determine whether the transmitter/receiver is in communication or stand-by, as a communication state wherein, the reception period controller controls the reception period based on the reception state measurement result, the movement state measurement result, and a communication state determination result determined by the communication state determination unit (FIGS. 2-6, and col. 5, line 24 through col. 7, line 60 "Predicting user location", "having a different periodicity", "a predetermined time period, such as 1.5 seconds", "the mobile station again powers up to search for a control channel", "low power mode", "continuous sleep mode", note that predicting user location allows the mobile station 104 to only search for control channels broadcast by base stations in the locations where the user will be present. Further note that this prediction of the user location would also predict the signal reception capability of the mobile station, hence a predicting user location unit exists and this prediction user location unit is the reception state measurement unit which inherently measures a reception state of the signal from the base station according the location of the mobile station. Further note that predicting when the user needs to

communicate allows the mobile station to enter a very low power mode or continuous sleep mode, and in the continuous sleep mode, in distinction to the sleep mode, the mobile station does not wake up periodically to detect a control channel, but it remains largely powered down for an extended period of time, and after the extended period of time elapses, the mobile station again powers up to search for a control channel, hence the communication state determination result (very low power mode or continuous sleep mode) determined by the communication state determination unit (predicting when the user needs to communicate unit) prompts the reception period controller to control a reception period for receiving a control signal from the bases station. Further note that predicting user movement allows the mobile station to eliminate unnecessary registration to other base stations when the mobile station is already locked to its current base station, and consequently decreasing the reception period for receiving control signals from other base stations, hence, mobility of the mobile terminal (movement state measurement result) which resulted from the predicting user movement (movement state measurement unit) prompted the reception period controller to control a reception period for receiving a control signal transmitted from the base station by the transmitter/receive. Furthermore note that predicting user location allows the mobile station to only search for control channels broadcast by base station in the location where the user will be present, and the mobile station can reduce the time during which the receiver must be powered up, and the mobile station will search for a base station more frequently around the time and on the channels where the base was previously found and less frequently otherwise, hence, the reception state measurement result (user location) measured by the reception state measurement unit prompts the reception period controller to control the reception period as well).

Referring to claim 11, Pombo discloses the mobile terminal of Claim 9, wherein the reception state measurement unit measures a difference in reception states of signals from a plurality of base stations received by the transmitter/receiver, as the reception state (col. 5, lines 24-42, "Predicting user location", note that predicting user location inherently involves a plurality of base station in order to measure the signal strength from surrounding base stations so that the location of the mobile station is determined with reference to the base stations in the vicinity, hence, the reception state measurement unit measures a difference in reception states of signals from a plurality of base stations received by the transmitter/receiver, as the reception state.

Referring to claim 12, Pombo discloses a control device (Abstract, FIG. 1, and col. 2, lines 52-67" a portable communication device (104)") comprising a reception state measurement unit configured to measure a reception state of the signal from a base station received by a mobile terminal (FIG. 1, col. 3, line 39-67, and col. 6, lines 7-17, "a tunable receiver 108", "transmitter 110", "base station 102", "base station 102 sends an appropriate signal on a control channel for . . . the mobile station 104", "Predicting when the user needs to communicate", note that radio communication inherently involves transmitting and receiving, hence the unit predicts when the user needs to receive and transmit, and consequently determines a reception state signal terminal from the base station received the mobile predicting a by (e.g., reception/communication state, which indicates the user would communicate), a movement state measurement unit configured to measure a movement state of the mobile terminal (col. 5, line 43

Application/Control Number: 10/654,961

Art Unit: 2687

through col. 6, line 7, "Predicting user movement", note that a predicting user movement unit (a movement state measurement unit) exists which predicts the mobility of the user, and consequently measures a movement state of the mobile terminal), and

a reception period controller (FIG. 1, and col. 4, line 30 through col. 5, line 11, "controller 116", "battery control 122", note that the controller 116 and the battery control 122 combined together is the reception period controller) configured to control a reception period for receiving a control signal transmitted from the base station by the mobile terminal, based on a reception state measurement result determined by the reception state determination unit and a movement state measurement result measured by the movement state measurement unit (FIGS. 2-6, and col. 5, line 16 through col. 7, line 60, "There are three main processes which may be combined", "having a different periodicity", "a predetermined time period, such as 1.5 seconds", "the mobile station again powers up to search for a control channel", "low power mode", "continuous sleep mode", note that predicting when the user needs to communicate allows the mobile station to enter a very low power mode or continuous sleep mode, and in the continuous sleep mode, in distinction to the sleep mode, the mobile station does not wake up periodically to detect a control channel, but it remains largely powered down for an extended period of time, and after the extended period of time elapses, the mobile station again powers up to search for a control channel, hence the communication state determination result (very low power mode or continuous sleep mode) determined by the communication state determination unit (predicting when the user needs to communicate unit) prompts the reception period controller to control a reception period for receiving a control signal from the bases station. Further note that predicting user movement allows the mobile station to eliminate unnecessary registration to other base stations when the mobile station is already locked to its current base station, and consequently decreasing the reception period for receiving control signals from other base stations, hence, mobility of the mobile terminal (movement state measurement result) which resulted from the predicting user movement (movement state measurement unit) prompts the reception period controller to control a reception period for receiving a control signal transmitted from the base station by the transmitter/receive).

Referring to claim 13, Pombo discloses the control device of claim 12, further comprising a communication state determination unit configured to determine whether the transmitter/receiver is in a communication state or stand-by state, wherein the reception period controller controls the reception period based on the reception state measurement result, the movement state measurement result, and a communication state determination result determined by the communication state determination unit (FIGS. 2-6, and col. 5, line 24 through col. 7, line 60, "Predicting user location", having a different periodicity", "a predetermined time period, such as 1.5 seconds", "the mobile station again powers up to search for a control channel", "low power mode", "continuous sleep mode", note that predicting user location allows the mobile station 104 to only search for control channels broadcast by base stations in the locations where the user will be present. Further note that this prediction of the user location would also predict the signal reception capability of the mobile station, hence a predicting user location unit exists and this prediction user location unit is the reception state measurement unit which inherently measures a reception state of the signal from the base station according the location of the mobile station. Further note that predicting when the user needs to communicate allows the mobile

station to enter a very low power mode or continuous sleep mode, and in the continuous sleep mode, in distinction to the sleep mode, the mobile station does not wake up periodically to detect a control channel (inherently from a base station), but it remains largely powered down for an extended period of time, and after the extended period of time elapses, the mobile station again powers up to search for a control channel, hence the communication state determination result (very low power mode or continuous sleep mode) determined by the communication state determination unit (predicting unit) prompts the reception period controller to control a reception period for receiving a control signal from the bases station. Further note that predicting user movement allows the mobile station to eliminate unnecessary registration to other base stations when the mobile station is already locked to its current base station, and consequently decreasing the reception period for receiving control signals from other base stations, hence, mobility of the mobile terminal (movement state measurement result) which resulted from the predicting user movement (movement state measurement unit) prompts the reception period controller to control a reception period for receiving a control signal transmitted from the base station by the transmitter/receive. Furthermore note that predicting user location allows the mobile station to only search for control channels broadcast by base station in the location where the user will be present, and the mobile station can reduce the time during which the receiver must be powered up, and the mobile station will search for a base station more frequently around the time and on the channels where the base was previously found and less frequently otherwise, hence, the reception state measurement result (user location) measured by the reception state measurement unit prompts the reception period controller to control the reception period as well).

Application/Control Number: 10/654,961 Page 10

Art Unit: 2687

Referring to claim 14, Pombo discloses a communication system (Abstract, "A method and apparatus reduces power consumption in a portable communication device") comprising a base station (FIG. 1, and col. 2, lines 52-67, "a base station 102") and a mobile terminal (Abstract, col. 2, lines 52-67, and FIG. 1"a portable communication device (104)") comprising a transmitter/receiver configured to transmit/receive a signal to/from the base station (FIG. 1, and col. 3, line 39-67, "a tunable receiver 108", "transmitter 110", "base station 102", "base station 102 sends an appropriate signal on a control channel for . . . the mobile station 104"), a reception state measurement unit configured to measure a reception state of the signal from the base station received by the transmitter/receiver (col. 6, lines 7-17, "Predicting when the user needs to communicate", note that radio communication inherently involves transmitting and receiving, hence the unit predicts when the user needs to receive and transmit, and consequently determines a reception state signal from the base station received by the transmitter/receiver (e.g., predicting a reception/communication state indicating that the user is in communication or in active reception and transmission mode), a movement state measurement unit configured to measure a movement state of the mobile terminal (col. 5, line 43 through col. 6, line 7, "Predicting user movement", note that a predicting user movement unit (a movement state measurement unit) exists which predicts the mobility of the user, and consequently measures a movement state of the mobile terminal), and a reception period controller (FIG. 1, and col. 4, line 30 through col. 5, line 11, "controller 116", "battery control 122", note that the controller 116 and the battery control 122 combined together is the reception period controller) configured to control a reception period for receiving a control signal transmitted from the base station by the transmitter/receiver, based on a reception state measurement result determined by

the reception state measurement unit and a movement state measurement result measured by the movement state measurement unit (FIGS. 2-6, and col. 5, line 16 through col. 7, line 60, "There are three main processes which may be combined", "having a different periodicity", "a predetermined time period, such as 1.5 seconds", "the mobile station again powers up to search for a control channel", "low power mode", "continuous sleep mode", note that predicting when the user needs to communicate allows the mobile station to enter a very low power mode or continuous sleep mode, and in the continuous sleep mode, in distinction to the sleep mode, the mobile station does not wake up periodically to detect a control channel (inherently from a base station), but it remains largely powered down for an extended period of time, and after the extended period of time elapses, the mobile station again powers up to search for a control channel, hence the communication state determination result (very low power mode or continuous sleep mode) determined by the communication state determination unit (predicting when the user needs to communicate unit) prompts the reception period controller to control a reception period for receiving a control signal from the bases station. Further note that predicting user movement allows the mobile station to eliminate unnecessary registration to other base stations when the mobile station is already locked to its current base station, and consequently decreasing the reception period for receiving control signals from other base stations, hence, mobility of the mobile terminal (movement state measurement result) which resulted from the predicting user movement (movement state measurement unit) prompts the reception period controller to control a reception period for receiving a control signal transmitted from the base station by the transmitter/receive).

Referring to claim 15, Pombo discloses a communication method (Abstract, "A method and apparatus reduces power consumption in a portable communication device"), comprising receiving a signal from a base station (FIG. 1, and col. 3, line 39-67, "a tunable receiver 108", "transmitter 110", "base station 102", "base station 102 sends an appropriate signal on a control channel for . . . the mobile station 104"); measuring a reception state of the signal from the base station (col. 6, lines 7-17, "Predicting when the user needs to communicate", note that radio communication inherently involves transmitting and receiving, hence the unit predicts when the user needs to receive and transmit, and consequently determines a reception state signal from the base station received by the transmitter/receiver (e.g., predicting a reception/communication state indicating that the user is in communication or in active reception and transmission mode), measuring a movement state of the mobile terminal (col. 5, line 43 through col. 6, line 7, "Predicting user movement", note that a predicting user movement unit (a movement state measurement unit) exists which predicts the mobility of the user, and consequently measures a movement state of the mobile terminal), and controlling (FIG. 1, and col. 4, line 30 through col. 5, line 11, "controller 116", "battery control 122", note that the controller 116 and the battery control 122 combined together is the controller, hence the method comprises controlling function) a reception period for receiving a control signal transmitted from the base station by the mobile terminal, based on a reception state measurement result and a movement state measurement result (FIGS. 2-6, and col. 5, line 16 through col. 7, line 60, "There are three main processes which may be combined", "having a different periodicity", "a predetermined time period, such as 1.5 seconds", "the mobile station again powers up to search for a control channel", "low power mode", "continuous sleep mode", note that predicting Application/Control Number: 10/654,961 Page 13

Art Unit: 2687

when the user needs to communicate allows the mobile station to enter a very low power mode or continuous sleep mode, and in the continuous sleep mode, in distinction to the sleep mode, the mobile station does not wake up periodically to detect a control channel (inherently from a base station), but it remains largely powered down for an extended period of time, and after the extended period of time elapses, the mobile station again powers up to search for a control channel, hence the communication state determination result (very low power mode or continuous sleep mode) determined by the communication state determination unit (predicting when the user needs to communicate unit) prompts the reception period controller to control a reception period for receiving a control signal from the bases station. Further note that predicting user movement allows the mobile station to eliminate unnecessary registration to other base stations when the mobile station is already locked to its current base station, and consequently decreasing the reception period for receiving control signals from other base stations, hence, mobility of the mobile terminal (movement state measurement result) which resulted from the predicting user movement (movement state measurement unit) prompts the reception period controller to control a reception period for receiving a control signal transmitted from the base station by the transmitter/receive).

Response to Arguments

4. Applicant's arguments with respect to claims 1-11 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred A. Casca whose telephone number is (571) 272-7918. The examiner can normally be reached from 9 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid, can be reached on (571) 272-7922. The fax number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

Application/Control Number: 10/654,961 Page 15

Art Unit: 2687

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SONNY TRINH
PRIMARY EXAMINEL